

Exploring Aeronautics			
2004 Science			
Grade Level Articulations			
<b>Arizona Science</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	AZ	SCI.5.5.2.PO 2	Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation).
Airplane Control(209-256)	AZ	SCI.5.5.2.PO 2	Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation).
Tools of Aeronautics(257-326)	AZ	SCI.5.1.4.PO 2.d	Choose an appropriate graphic representation for collected data (model)
Tools of Aeronautics(257-326)	AZ	SCI.5.3.2.PO 3	Design and construct a technological solution to a common problem or need using common materials.
How an Airplane Flies	AZ	SCI.5.5.2.PO 2	Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation).
The Tools of Aeronautics	AZ	SCI.5.1.4.PO 2.d	Choose an appropriate graphic representation for collected data (model)
Science of Flight	AZ	SCI.5.1.1.PO 1	Formulate a relevant question through observations that can be tested by an investigation.
Science of Flight	AZ	SCI.5.1.1.PO 2	Formulate predictions in the realm of science based on observed cause and effect relationships.
Science of Flight	AZ	SCI.5.1.2.PO 3	Conduct simple investigations (e.g., related to forces and motion, earth processes) based on student-developed questions in life, physical, and earth and space sciences.
Science of Flight	AZ	SCI.5.1.3.PO 1	Analyze data obtained in a scientific investigation to identify trends and form conclusions.
Scientific Method(124-144)	AZ	SCI.5.1.1.PO 1	Formulate a relevant question through observations that can be tested by an investigation.
Scientific Method(124-144)	AZ	SCI.5.1.2.PO 2	Plan a simple investigation that identifies the variables to be controlled.
Scientific Method(124-144)	AZ	SCI.5.1.3.PO 1	Analyze data obtained in a scientific investigation to identify trends and form conclusions.
Scientific Method(124-144)	AZ	SCI.5.1.3.PO 2	Analyze whether the data is consistent with the proposed explanation that motivated the investigation.
Scientific Method(124-144)	AZ	SCI.5.1.3.PO 4	Develop new investigations and predictions based on questions that arise from the findings of an investigation.
Exploring Aeronautics			
2004 Science			
Grade Level Articulations			

<b>Arizona Science</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Science of Flight	AZ	SCI.6.1.1.PO 1	Differentiate among a question, hypothesis, and prediction.
Science of Flight	AZ	SCI.6.1.1.PO 2	Formulate questions based on observations that lead to the development of a hypothesis.
Science of Flight	AZ	SCI.6.1.4.PO 2	Display data collected from a controlled investigation.
Science of Flight	AZ	SCI.6.1.4.PO 5	Communicate the results and conclusion of the investigation.
Integrating with Aeronautics	AZ	SCI.6.1.3.PO 4	Interpret simple tables and graphs produced by others.
Scientific Method(124-144)	AZ	SCI.6.1.1.PO 1	Differentiate among a question, hypothesis, and prediction.
Scientific Method(124-144)	AZ	SCI.6.1.1.PO 2	Formulate questions based on observations that lead to the development of a hypothesis.
Scientific Method(124-144)	AZ	SCI.6.1.2.PO 2	Design an investigation to test individual variables using scientific processes.
Scientific Method(124-144)	AZ	SCI.6.1.3.PO 3	Evaluate the observations and data reported by others.
<b>Exploring Aeronautics</b>			
<b>2004 Science</b>			
<b>Grade Level Articulations</b>			
<b>Arizona Science</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Science of Flight	AZ	SCI.7.1.1.PO 1	Formulate questions based on observations that lead to the development of a hypothesis.
Science of Flight	AZ	SCI.7.1.1.PO 3	Explain the role of a hypothesis in a scientific inquiry.
Science of Flight	AZ	SCI.7.1.2.PO 3	Conduct a controlled investigation, utilizing multiple trials, to test a hypothesis using scientific processes.
Science of Flight	AZ	SCI.7.1.3.PO 3	Analyze results of data collection in order to accept or reject the hypothesis.
Science of Flight	AZ	SCI.7.1.3.PO 5	Formulate a conclusion based on data analysis.
Scientific Method(124-144)	AZ	SCI.7.1.1.PO 1	Formulate questions based on observations that lead to the development of a hypothesis.
Scientific Method(124-144)	AZ	SCI.7.1.1.PO 2	Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.
Scientific Method(124-144)	AZ	SCI.7.1.1.PO 3	Explain the role of a hypothesis in a scientific inquiry.
Scientific Method(124-144)	AZ	SCI.7.1.2.PO 2	Design an investigation to test individual variables using scientific processes.
Scientific Method(124-144)	AZ	SCI.7.1.2.PO 3	Conduct a controlled investigation, utilizing multiple trials, to test a hypothesis using scientific processes.
Scientific Method(124-144)	AZ	SCI.7.1.3.PO 3	Analyze results of data collection in order to accept or reject the hypothesis.

<b>Exploring Aeronautics</b>			
<b>2004 Science</b>			
<b>Grade Level Articulations</b>			
<b>Arizona Science</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Science of Flight	AZ	SCI.8.1.1.PO 1	Formulate questions based on observations that lead to the development of a hypothesis.
Science of Flight	AZ	SCI.8.1.1.PO 2	Use appropriate research information, not limited to a single source, to use in the development of a testable hypothesis.
Science of Flight	AZ	SCI.8.1.1.PO 3	Generate a hypothesis that can be tested.
Science of Flight	AZ	SCI.8.1.2.PO 2	Design a controlled investigation to support or reject a hypothesis.
Science of Flight	AZ	SCI.8.1.2.PO 3	Conduct a controlled investigation to support or reject a hypothesis.
Scientific Method(124-144)	AZ	SCI.8.1.1.PO 1	Formulate questions based on observations that lead to the development of a hypothesis.
Scientific Method(124-144)	AZ	SCI.8.1.1.PO 2	Use appropriate research information, not limited to a single source, to use in the development of a testable hypothesis.
Scientific Method(124-144)	AZ	SCI.8.1.1.PO 3	Generate a hypothesis that can be tested.
Scientific Method(124-144)	AZ	SCI.8.1.2.PO 2	Design a controlled investigation to support or reject a hypothesis.
Scientific Method(124-144)	AZ	SCI.8.1.2.PO 3	Conduct a controlled investigation to support or reject a hypothesis.